

CL2365USNA.ST25  
SEQUENCE LISTING

<110> E.I. du Pont deNemours and Co., Inc.  
Cheng, Qiong  
Tao, Luan  
Sedkova, Natalia

<120> GENES ENCODING CAROTENOID COMPOUNDS

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<150> US 60/477,874

<151> 2003-06-12

<150> US 60/527,083

<151> 2003-12-03

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<170> PatentIn version 3.2

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 Ala Gln Leu Arg His Ile Ala Pro Asp Val Pro Leu Leu Ala Asn Leu  
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 35 40 45

His Gln His Asp Ile Thr Pro Ala Gln His Ala Trp Leu Ala Pro Leu  
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Val Ala His Arg Trp Asp Gly Tyr Asp Val His Phe Pro Asn Val Ser  
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Arg Thr Leu His Asp Gly Tyr Leu Thr Ile Thr Ser Thr Arg Phe Ala  
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Gln Ala Met Arg Gly Leu Met Lys Glu Asn Leu Leu Thr Asn Val Thr  
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Val Ser Arg Val Ser Gly Gln Glu Val Thr Leu Ser Asp Gly Arg Arg  
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Phe Thr Ala Gly Ala Val Ile Asp Gly Arg Gly Tyr Gln Pro Ser Pro  
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His Leu Ser Ile Gly Tyr Gln Ala Phe Ile Gly Gln Glu Trp Gln Leu  
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Thr Ala Pro His Gly Leu Thr Arg Pro Ile Leu Met Asp Ala Arg Val  
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Ala Gln Gly Asn Gly Tyr Arg Phe Val Tyr Thr Leu Pro Leu Ser Ala  
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Asp Ala Asp Ser Ala Arg Ala Arg Ile Ala Asp Tyr Ala Arg Gln Gln  
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Gly Trp Gln Leu Ala Arg Leu Val Arg Glu Glu Gln Gly Ala Leu Pro  
 225 230 235 240

Ile Thr Leu Ser Gly Asp Pro Ala Ala Phe Trp His Gln Phe His His  
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Gln Pro Val Ser Gly Leu Arg Ala Gly Leu Phe His Ala Thr Thr Gly  
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Tyr Ser Leu Pro Leu Ala Val Arg Leu Ala Asp Arg Ile Ala Asn Ala  
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Arg Ala Val Phe Ala Glu Gly Tyr Leu Lys Leu Gly Ala Val Pro Phe
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Leu Ser Phe Arg Asp Met Leu Arg Ala Gly Pro Gln Leu Ala Arg Leu
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Gln Gly Met Val Lys Leu Phe Gln Asp Leu Gly Gly Thr Leu Thr Leu  
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Asn Ala Asp Val Val Asn Thr Tyr Ala Arg Leu Leu Gly His His Pro  
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Ser Leu Phe Val Leu Tyr Phe Gly Leu Asp His His His Thr Gln Leu  
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Leu Glu Ala Arg Tyr Met Pro Gly Leu Arg Ser Gln Leu Val Thr His  
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Arg Met Phe Thr Pro Glu Asp Phe Arg Asp Thr Leu Asp Ala Trp Gln  
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Gly Ser Ala Phe Ser Leu Glu Pro Ile Leu Thr Gln Ser Ala Trp Phe  
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Arg Pro His Asn Arg Asp Ser Val Val Asp Asn Leu Tyr Leu Val Gly  
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 Thr Arg Ala Glu Lys Leu Ala Leu Val Ile Ser Gly Ala Lys Gln Ala  
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Ala Gly Met Thr Gly Tyr Gly Val Ile Tyr Phe Ile Val His Asp Gly  
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Arg Glu Gly Cys Val Ser Phe Gly Phe Ile Tyr Ala Pro Pro Val Asp  
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135

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